

JOURNAL Nat. Genet. 18 (2), 104-106 (1998)  
 MEDLINE 98122566  
 COMMENT On Feb 6, 1998 this sequence version replaced gi:2598660  
 AB000847: Submitted (04-Feb-1997).  
 FEATURES Location/Qualifiers

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**alignment\_scores:**

US-09-807-007-1 X AB010833

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; Patent No. 6348575  
; GENERAL INFORMATION:  
; APPLICANT: de Sauvage, Frederic  
; APPLICANT: Carpenter, David A.  
; TITLE OF INVENTION: Patched-2  
; FILE REFERENCE: P1405R1  
; CURRENT APPLICATION NUMBER: US/09/293,505  
; CURRENT FILING DATE: 1999-04-15  
; EARLIER APPLICATION NUMBER: US 60/081,884  
; EARLIER FILING DATE: 1998-04-15  
; NUMBER OF SEQ ID NOS: 32  
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; LENGTH: 4030  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
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901 ProAlaGlnProLeuGlnPheAlaGlnPheProPheLeuLeuArgGlyLe 917  
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917 uGlnLysThrAlaAspPheValGlnAlaIleGlnGlyAlaArgAlaAlaC 2983  
2983 CCAAGAGACTGCAGACTTGTGGAGGCCATCGAGGGGCGCGGCGAGCAT 3032  
934 yAlaGlnAlaGlyGlnAlaGlyValHisAlaTyrProSerGlySerPro 950  
883 GCGCAGAGCGCGCGCTGGGCTGCACGCTTACCCAGCGGCTCCGCC 3082  
951 PheLeuPheTyrGlnGlnTyrLeuGlyLeuArgArgCysPheLeuLeuAl 967  
3083 TTCCTTCTGGGAAACAGTATCTGGGCTGGCGGCTCTCTGCTGGC 3132  
967 aValCysIleLeuLeuValCysThrPheLeuValCysAlaLeuLeuLeu 984  
3133 CACTCAGCATCCGCTGGTGTGCACCTTCTGCTGCTGCTGCTGCTCC 3182  
984 euAsnProTyrThrAlaGlyLeuIleValLeuValLeuAlaMetThr 1000  
3183 TCAACCCCTGGAGCGCTGGCTCATAGTGTGCTGCTGGCATGATGACA 3232  
1001 ValGluLeuPheGlyIleMetGlyPheLeuGlyIleLysLeuSerAlaI 1017  
3233 GTGGAATCTTTGGTATCATGGGTTCTCTGGCATCAAGCTGATGCCAT 3282  
1017 eProValValIleLeuValAlaSerValGlyIleGlyValGluPheThrV 1034  
3283 CCCCCTGGTGTATCTTGGCTCTAGGCAATGGCGTTGAGTTCAACAG 3332  
1034 aHisValAlaLeuGlyPheLeuThrThrGlnGlySerArgAsnLeuArg 1050  
3333 TCCACGTGGCTGGGCTTCTGACCAACCCAGGAGGCGGAACTTGGCG 3382  
1051 AlaAlaHisAlaLeuGlnIstThrPheAlaProValThrAspGlyAlaI 1067  
|||||

3383 GCGCCCATGCCCCCTTGAGCACACATTTGCCCGGTGACCGATGGGCGCAT 3432  
1067 eSerThrLeuLeuGlyLeuLeuMetLeuAlaGlySerHisPheAspPhe 1084  
3433 CTCACATTTCTGGGCTGCTCATGCTTCTGGTTCCACTTGAATTCA 3482  
1084 LeValArgTyrPhePheAlaAlaLeuThrValLeuThrLeuLeuGlyLeu 1100  
3483 TTGTAAGTACTTCTTGGCGGCGCTGACAGTGTCTCAGCTCTCTGGGCTC 3532  
1101 LeuHisGlyLeuValLeuLeuProValLeuLeuSerIleLeuGlyProP 3533  
3533 CTCATGAGACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 3582  
1117 oProGluValIleGlnMetTyrLysGluSerProGluIleLeuSerPro 1134  
3583 GCCAGAGTGATGATACAGATGTACAAAGAAAGCCAGAGATCTGAGTCCAC 3632  
1134 roAlaPProGlnGlyGlyGlyLeuArg 1142  
3633 CAGCTCCACAGGAGGCGGCTTAGG 3658

28	264	4.4	115	3	US-08-656-055-8	Sequence 8, Appl1
29	264	4.4	115	4	US-08-954-668-8	Sequence 8, Appl1
30	264	4.4	115	5	PCR-US95-13233-8	Sequence 8, Appl1
31	209	3.5	46	4	US-09-500-063-4	Sequence 4, Appl1
32	168	2.8	107	2	US-08-540-406-2	Sequence 2, Appl1
33	168	2.8	107	3	US-08-656-055-2	Sequence 2, Appl1
34	168	2.8	107	4	US-08-954-668-2	Sequence 2, Appl1
35	168	2.8	107	5	PCR-US95-13233-2	Sequence 2, Appl1
36	116.5	2.0	1705	4	US-08-656-785-4	Sequence 4, Appl1
37	111	1.9	992	1	US-08-127-499A-1	Sequence 1, Appl1
38	111	1.9	992	1	US-08-482-847-1	Sequence 1, Appl1
39	109.5	1.8	890	1	US-08-445-640-2	Sequence 2, Appl1
40	109.5	1.8	890	3	US-08-170-558-2	Sequence 2, Appl1
41	109.5	1.8	890	3	US-08-447-314-2	Sequence 2, Appl1
42	109.5	1.8	890	3	US-08-445-461-2	Sequence 2, Appl1
43	109.5	1.8	911	1	US-08-286-305A-1	Sequence 1, Appl1
44	109.5	1.8	911	2	US-08-441-104A-1	Sequence 1, Appl1
45	109.5	1.8	911	2	US-08-440-816A-1	Sequence 1, Appl1

## ALIGNMENTS

RESULT 1  
US-09-293-505-2  
Sequence 2, Application US/09293505  
Patent No. 6348575  
GENERAL INFORMATION:  
APPLICANT: de Sauvage, Frederic  
APPLICANT: Carpenter, David A.  
TITLE OF INVENTION: Patched-2  
FILE REFERENCE: P1405R1  
CURRENT APPLICATION NUMBER: US/09/293,505  
CURRENT FILING DATE: 1999-04-15  
EARLIER APPLICATION NUMBER: US 60/081,884  
EARLIER FILING DATE: 1998-04-15  
NUMBER OF SEQ ID NOS: 32  
SEQ ID NO 2  
LENGTH: 1203  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-293-505-2

Query Match 99.3%; Score 5911; DB 4; Length 1203;  
Best Local Similarity 99.7%; Pred. No. 0;  
Matches 1139; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY	1	MTRSPPLRELPSYTPPAPAPOLLAGSKAPLWRAVFOGLTSLGCGIORHCGKYLE	60
DB	1	MTRSPPLRELPSYTPPAPAPOLLAGSKAPLWRAVFOGLTSLGCGIORHCGKYLE	60
QY	61	LGILAFGALALGLRMAIIEFNLEQWVEGSRVSOELHYTKKELEEAAYTSOMLIQTAR	120
DB	61	LGILAFGALALGLRMAIIEFNLEQWVEGSRVSOELHYTKKELEEAAYTSOMLIQTAR	120
QY	121	QEGENTLTPBALGLHQAALITASKVOVSLYKSWDLNKCYSVPLIENGMIEMIERKL	180
DB	121	QEGENTLTPBALGLHQAALITASKVOVSLYKSWDLNKCYSVPLIENGMIEMIERKL	180
QY	181	FPQVILTPDCEFWGAKLOGGSAYLPGRPDIQWTLNDBOLLEELGPPASLEGFRELIDK	240
DB	181	FPQVILTPDCEFWGAKLOGGSAYLPGRPDIQWTLNDBOLLEELGPPASLEGFRELIDK	240
QY	241	AOVGQAYVGRPCILHPDDLCPSPAPNHSRQAPNVAHELSGGCGFSKEMHNOEILLG	300
DB	241	AOVGQAYVGRPCILHPDDLCPSPAPNHSRQAPNVAHELSGGCGFSKEMHNOEILLG	300
QY	301	GKARDPOGELRAEALOSTFILMSPRQLYEHFRDYOYTHDIGMSEEOASTYLQAMORREV	360
DB	301	GKARDPOGELRAEALOSTFILMSPRQLYEHFRDYOYTHDIGMSEEOASTYLQAMORREV	360
QY	361	QLAQALPENASQOIHAFSSTTDDILHAFSEVSARVGGYLLMLAYACVTMLRWDAQ	420

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Db 361 QLAQALPENASQOIHAFSSTTDDILHAFSEVSAARVGVYLLMLAYACVTMLRWDCAQ 420  
QY 421 SGGVGLAGVLLVALAVASGLGICALITFNNATTOVLPFLAIGVNDVFLAAHAFTE 480  
Db 421 SGGVGLAGVLLVALAVASGLGICALITFNNATTOVLPFLAIGVNDVFLAAHAFTE 480  
QY 481 ALRPTPLQERNGECLORTGSTSVLTSTNNMAAFMLALVPIPALRAFSLCAATVGCCTFV 540  
Db 481 ALRPTPLQERNGECLORTGSTSVLTSTNNMAAFMLALVPIPALRAFSLCAATVGCCTFV 540  
QY 541 AVMLVFPALISLDRRRHRCQRLDVLCCFSSPCSAQVIOIILPQELGDTVPVGAHLATAV 600  
Db 541 AVMLVFPALISLDRRRHRCQRLDVLCCFSSPCSAQVIOIILPQELGDTVPVGAHLATAV 600  
QY 601 QAFTHCEASSQHVYTIIPQAHVLPSPSDPLGSELFSFGSTRDLLGQEHETROKAKCS 660  
Db 601 QAFTHCEASSQHVYTIIPQAHVLPSPSDPLGSELFSFGSTRDLLGQEHETROKAKCS 660  
QY 661 LFCARMNLAHFARVQFAPFLLOSHAKAIVLVFGALLGLSLYGATLVQDGLATLVVPRG 720  
Db 661 LFCARMNLAHFARVQFAPFLLOSHAKAIVLVFGALLGLSLYGATLVQDGLATLVVPRG 720  
QY 721 TKEHAFLSAQLRYESLYEVALVTGGCFDYAHSQRALPDLHQRFSGLKAVLPAPATQAPRT 780  
Db 721 TKEHAFLSAQLRYESLYEVALVTGGCFDYAHSQRALPDLHQRFSGLKAVLPAPATQAPRT 780  
QY 781 WHHYRNMLQIOAFAFDDDMASGRITRHSYRNGSEDCALAYKLLIQTDNAQELDFSQLT 840  
Db 781 WHHYRNMLQIOAFAFDDDMASGRITRHSYRNGSEDCALAYKLLIQTDNAQELDFSQLT 840  
QY 841 TRKLVDRGLIPPELFYMGLTWVWSSDPLGLAASQANFYPPPEWLDHKYDTGTGENLRIP 900  
Db 841 TRKLVDRGLIPPELFYMGLTWVWSSDPLGLAASQANFYPPPEWLDHKYDTGTGENLRIP 900  
QY 901 PAQPLEFAQFPFLGLGLOTTADFEVAIEGARAACAAGAGVHAYPSGSPFLFMEQYIGL 960  
Db 901 PAQPLEFAQFPFLGLGLOTTADFEVAIEGARAACAAGAGVHAYPSGSPFLFMEQYIGL 960  
QY 961 RRCFLAVCILVCFPLVCALLLNPMWAGLIVLVAMTVELFGIMGFLGKLSAIPV 1020  
Db 961 RRCFLAVCILVCFPLVCALLLNPMWAGLIVLVAMTVELFGIMGFLGKLSAIPV 1020  
QY 1021 ILVASGIGVEFVHALFLLTQGSRLRAHALEHTFAPYTDGALISTLLGLMLAGSH 1080  
Db 1021 ILVASGIGVEFVHALFLLTQGSRLRAHALEHTFAPYTDGALISTLLGLMLAGSH 1080  
QY 1081 FDEIVRYFPALVTLGLHGLVLLPVLLSTLGGPPEVIOMYKESPEILSPAPQGGG 1140  
Db 1081 FDEIVRYFPALVTLGLHGLVLLPVLLSTLGGPPEVIOMYKESPEILSPAPQGGG 1140  
QY 1141 LR 1142  
Db 1141 LR 1142

## RESULT 2

US-09-207-857-2  
Sequence 2, Application US/09207857  
Patent No. 6309879

## GENERAL INFORMATION:

APPLICANT: Buncroft, David A.  
TITLE OF INVENTION: HUMAN PATCHED GENES AND PROTEINS, AND USES RELATED  
FILE REFERENCE: ONV-05001  
CURRENT APPLICATION NUMBER: US/09/207,857  
CURRENT FILING DATE: 1998-12-08  
NUMBER OF SEQ ID NOS: 6  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 2  
LENGTH: 1203  
NAME: PRT  
SPECIES: human